

## **1.0. SPECIAL PROVISIONS**

- A.** Description: Install four (4) new R99-100 interstate signs (ALL WATER CRAFT/MUST BE INSPECTED/BEFORE ENTERING ANY/MONTANA WATERWAY) with wind beam, structural steel supports and frangible breakaway devices. Install eleven (11) new R99-101 NH/PRI/SEC signs (ALL WATER CRAFT/MUST BE INSPECTED/BEFORE ENTERING ANY/MONTANA WATERWAY) with wind beam, structural steel supports and frangible breakaway devices. See table under contract information for locations.
- B.** Sign Faces: Use 13'-6" x 6'-0" sheet aluminum increment Type IV sign sheeting for the R99-100 interstate signs and 9'-0" x 4'-6" sheet aluminum increment Type IV for the R99-101 NH/PRI/SEC signs, provided by the state.
- C.** Extruded "T"-Section backbrace (wind beam), attached to sign faces using 3M VHB 4941 HSE tape and rivets, installed in accordance with section 1.3 Construction Requirements. Backbraces (wind beam) will not be provided by the state.
- D.** Supports: Use W8x18 structural steel supports with frangible sign post breakaway devices for the R99-100 signs. Use S5x10 structural steel supports with frangible sign post breakaway devices for the R99-101 signs.

A known supplier for the frangible sign post breakaway devices is:

Transpo Industries, Inc.  
20 Jones Street  
New Rochelle, NY 10801  
Phone: (914)636-10000  
Toll Free: (800)321-7870  
Email: info@transpo.com

## **1.1. DESCRIPTION**

This work consists of installing R99-100 and R99-101 Aquatic Invasive Species signs.

## **1.2. MATERIALS**

- 1.2.1.** State Furnished sign faces will be used by the contractor. These faces to be picked up by the contractor at 930 Custer Avenue, Helena, MT 59601.
- 1.2.2.** Extruded "T"-Section backbraces (wind beam)- NOT SUPPLIED BY STATE.
- 1.2.3.** Frangible sign posts breakaway S5 X 10 (S130 X 15) and W8 X 18 (W200 X 27).

## **1.3. CONSTRUCTION REQUIREMENTS**

Construction Requirements: Assure R99-100 signs are installed with a 30' lateral clearance and a 5' mounting height in accordance with Signing Detailed Drawings 619-00 and 619-08. Assure R99-101 signs are installed with a 30' lateral clearance and a 7' mounting height in accordance

with Signing Detailed Drawings 619-00 and 619-08 which can be found at:

[http://www.mdt.mt.gov/other/webdata/external/const/detailed\\_drawings/2017\\_March/619\\_SIGN\\_S\\_DELINS.PDF](http://www.mdt.mt.gov/other/webdata/external/const/detailed_drawings/2017_March/619_SIGN_S_DELINS.PDF)

Use 3M VHB 4941 HSE high bond industrial tape, or approved equal, to mount sign face to wind beam backbrace in addition to rivets. Prepare surface and apply tape per manufacturer's protocols.

- 1.3.1.** Prior to all excavation, contact the One Call Locate Center (1-800-424-555; except in Flathead and Lincoln Counties, 1-800-551-8344) or other notification system for the marking and location of all lines and services.

#### **1.4. MEASUREMENT**

- 1.4.1.** Steel poles are measured by pounds LBS.
- 1.4.2.** Extruded "T"-Section backbrace (wind beam) is measured by each.
- 1.4.3.** Breakaway hardware is measured by each.

#### **1.5. BASIS OF PAYMENT**

Payment at the contract unit price is full compensation for all necessary resources to complete the item of work under the contract.

#### **1.6. SUBMITTALS**

Contractor shall submit shop drawings, product data and samples as defined in section 3.12.1 of the General Conditions, for all sign and post structural items and traffic control plans five (5) days prior to start of project.

## **CONTRACT INFORMATION**

Locations: All signs will be installed at the approximate locations outlined in the table below.

<b>FWP Highway Signing Project - Aquatic Invasive Species (AIS)</b>						
<b>Sign Route</b>	<b>MDT Corridor</b>	<b>Reference Post</b>	<b>Road Bed Direction</b>	<b>MDT Maintenance Division</b>	<b>Sign Width</b>	<b>Location</b>
US-2	C000001	666.1400	WB	Wolf Point	9'	East of Bainville
MT-200	C000020	63.9300	WB	Miles City	9'	East of Fairview
MT-23	C000026	7.3500	WB	Miles City	9'	East of Sidney
I-94	C000094	249.1330	WB	Miles City	13'-6"	East of Wibaux
US-212	C000023	138.8000	WB	Miles City	9'	South of Alzada
S-314	C000314	0.2000	NB	Billings	9'	South of Decker
I-90	C000090	553.8000	NB	Billings	13'-6"	South of Wyola
US-310	C000004	0.0500	NB	Billings	9'	South of Bridger
MT-72	C000072	0.0200	NB	Billings	9'	South of Belfry
US-191	C000050	0.3000	NB	Bozeman	9'	West Yellowstone
US-20	C000012	0.2000	NB	Bozeman	9'	Targee Pass
MT-87	C000013	0.2000	NB	Bozeman	9'	Raynolds Pass
I-15	C000015	0.1000	NB	Butte	9'	Monida
I-90	C000090	0.1000	EB	Missoula	13'-6"	Lookout Pass
S-543	C000543	0.0200	NB	Wolf Point	13'-6"	Between Jordan and Fort Peck

## **SPECIFICATIONS FOR WORK:**

Sign Faces will be provided by the state to be picked up by the successful bidder at 930 Custer Avenue, Helena MT, 59601.

Provide all labor, materials, equipment, traffic control and incidentals necessary to install signage, posts and hardware per the specifications, locations and detail drawings listed herein. Contractor will be required to work with the MDT area Maintenance Chief for traffic control plan and location of sign placement. Contact information is as follows:

Missoula: Steve Felix (406)523-5803

Butte: Kam Wrigg (406)494-9627

Bozeman: Kyle DeMars (406)556-4704

Great Falls: Harry Barnett (406)454-5889

Havre: Matt Ladenburg (406)262-5504

Billings: Tom Tilzey (406)657-0217

Miles City: Tom Roberts (406)223-3622

Wolf Point: Carson Buffington (406)228-2534

All sign and related materials installation shall be in accordance with the Department's book entitled "Standard Specifications for Road and Bridge Construction", 2014 edition or as amended by current supplemental specifications found at: [http://www.mdt.mt.gov/business/contracting/standard\\_specs.shtml](http://www.mdt.mt.gov/business/contracting/standard_specs.shtml)

**SIGN FACES:**



9' - 0" x 4' - 6" (108" X 54") For Secondary Roads



13' - 6" x 6' - 0" (162" X 72") For Interstate Highways